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Important Safety Instructions

Thank you to choose the LED backlight LCD TV made by our company, a valuable product with excellent quality and multiple functions. This machine will bring you more audiovisual enjoyment. Its design can insure user's safety. All machine are strictly tested before leaving factory. But incorrect use can lead to electric shock or fire. In order to insure safety and extend its life, please read below regulations carefully before using it and comply with the following safety instructions.

- 1) Read the manual and marking label before using the machine, and keep the user manual for later use.
- 2) There is high voltage inside the machine, follow all the warnings and instructions strictly on the manual.
- 3) Don't use the attachments which are not recommended by the machine manufacturer as they may cause hazards.
- 4) The power cord must be placed correctly so as to avoid be trample or crush.
- 5) Please do not make the power socket overloaded or the power cord extended. Otherwise it will cause fire or electrical shock.
- 6) If you are going to pull out the power cord from this product, please dry your hands, pull the cord by grasping the plug. Never pull the cord itself.
- 7) If you will not use the machine for a long time, please pull out the power cord. Do not keep the sleeping mode for too long time.
- 8) Please put this machine in the place of well ventilation instead of extremely hot, cool or moist, and direct sunshine.
- 9) The slots on the case is designed to release heat so as to assure that all inside components will not reach an extra high temperature and can work normally for a long time. Please do not cover the holes while place it. Don't place the machine near or over heat source or place in built-in installation.
- 10) The power cord must be taken off before you clean the machine. Don't use the liquid cleanser or aerosol cleanser. It is recommended to use a wet soft cloth to clean the machine. Don't use the alcohol, impregnant or ammoniac liquid to wipe the screen.
- 11) Please don't place it on an unstable position so as to avoid falling off.
- 12) Don't place the LCD TV near water source, like a bathtub, pool, washing machine, or moist cellar and similar environment.
- 13) The LCD panel is fragile and expensive. The surface of the panel is easy to be scratched. Please don't use the hard

thing to knock, press, score the panel. Otherwise it will be harmful for the panel. The exchange cost is very high.

- 14) There is high voltage inside the machine but no parts which can be repaired by users themselves. In order to assure the people's safety, please don't open the case to repair it by yourself. If it is needed to repair, please contact qualified engineer to repair.
- 15) All cables can be connected or pull out only after power supply is turned off.
- 16) During a thunder rain weather, do not touch the power cord and antenna cable.
- 17) When the following troubles occur, please pull out the plug and call the professional engineers to repair.
 - A. The cable or plug is damaged.
 - B. The product has fallen down or the case is damaged.
 - C. Obvious abnormal situation occurs. In spite of correct operation according to the user manual but it still can't work normally.
 - D. Some abnormal substances or liquid fall into it.
 - E. Unusual sound or smell sends out.
- 18) When the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- 19) The machine should not suffer from waterdrop or watersplash, do not place the vessel with water (or other liquids) on it, for like this it is possibly to cause fire or electric shock.
- 20) The attaching plug should be inserted into the power point completely, otherwise it may cause spark to bring fire.
- 21) Please do not put candle, ash-tray, incense, inflammables or explosive nearby this machine.
- 22) Please do not stretch into any sharp object, metal or liquid, or touch the signal attachment or the inner of radiation hole, in order to avoid short circuit and product damage, or possibly causing electric shock. Especially pay attention when there are children on the spot.
- 23) Please don't use the machine immediately when moving the machine from low temperature place to high temperature one, or install and use at the place of facing air conditioning, otherwise it may cause the condensation in the machine, to cause fault.
- 24) Must be careful when moving this machine, avoiding being struck, especially pay attention to protect the screen part. In addition, if using handcart, must note the injury as the product is overturned from the handcart because of hard braking, overexerting and uneven ground.

Product Introduction

General information

- High-quality LED backlight LCD screen, energy saving, environmental protection, ultra-thin, brilliant features
- Having inter high quality speakers, which will give you purely audiovisual enjoyment and save your table place.
- Having many ideal connectors, you may directly connect your DVD, vidicon etc. its disport components of input connector let you enjoy beautiful image effect. The product can be used as a computer monitor with VGA and HDMI connectors. Also it can be used as a TV machine when you insert the antenna.
- Much faster response time will completely eliminate shadow of picture. seeing film and playing game may be more fluent.
- Enough colours can reach 16.7 millions kinds .
- Wider viewing angle, higher brightness, higher contrast, lower consumption.
- Intelligent image mode and sound mode can offer you intelligent audiovisual effect.
- Built-in the latest digital comb filter, which makes image more clear. The internal 3D De-Interlace technique can totally eliminate the screen dithering caused by interlace signals.
- Own perfect timing functions, you can set time to turn off. It will be turned off in state of no signals, too.
- Automatically operated convenient with telecontrol device.
- Auto-setup function help you set the image to best performance in several seconds in VGA mode.
- Auto color balance adjustment technology takes your machine to the best color setting for all different kinds of display adapters in VGA mode.
- Automatic denoise technique can greatly eliminate background noise caused by menu interference and the noise caused by weak signals so as to make the picture on the screen clear.
- Support USB interface, you can look through picture and play music files .

Features

● interface specification:

Interface	Specification
VGA	DB-15, 75 Ω 0.5~0.7Vp-p H/V: TTL Level
HDMI	Video signal: 1080P, 1080i, 720P, 576P, 576i, 480P, 480i Audio: LPCM 44.1KHz, 32KHz, 24Bit, 20Bit, 16Bit
CVBS Input	75 Ω 1Vp-p (PAL/NTSC/SECAM)
SCART Input/output	RGB: 75 Ω 1Vp-p CVBS: 75 Ω 1Vp-p Audio Input: 20K Ω 0.5Vp-p
YCbCr/YPbPr	Y: 75 Ω 1Vp-p; Cb/Cr: 75 Ω 0.7Vp-p Signal mode: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i
Audio Input	20K Ω 0.5Vp-p
TV(RF)	75 Ω Imbalance
Earphone	16~300 Ω 100mW+100mW

● Working Environment:

Atmosphere pressure: 86kPa~104kPa Temperature: 5℃ ~40℃ Humidity: 10%~85%

● Storage Environment:

Atmosphere pressure: 86kPa~104kPa Temperature: -20℃ ~55℃ Humidity: 5%~95%

● The Technical Specifications for Final Product

Panel size	18.5"	21.5"
Max. Resolution	1366×768	1920×1080
Best resolution	1360×768@60Hz	1920×1080@60Hz
Pixel pitch	0.3mm×0.3mm	0.24825mm×0.24825mm
Active area	409.80mm×230.40mm	476.64mm×268.11mm
Power supply	100V-240VAC 60/50Hz	100V-240VAC 60/50Hz
Volume	3W+3W	3W+3W
TV receive system	ATV: PAL B/G, I, D/K, SECAM L/L', B/G, D/K DVB-T: QPSK/16QAM/64QAM	
Unpacking Dimension(L×H×W)	469×362×36 mm	535×394×36 mm
Packing Dimension(L×H×W)	528×415×100 mm	595×445×100 mm
Net weight	4.0Kg	5.0Kg
Gross weight	5.0Kg	6.0Kg
Color	16.7M	16.7M
Remote control range	≥ 8m ± 30°	≥ 8m ± 30°
Storage channels	ATV: 100 DTV: 400	ATV: 100 DTV: 400

Panel size	23"
Max. Resolution	1920×1080
Best resolution	1920×1080@60Hz
Pixel pitch	0.2655mm×0.2655mm
Active area	509.76mm×286.74mm
Power supply	100V-240VAC 60/50Hz
Volume	3W+3W
TV receive system	ATV: PAL B/G, I, D/K, SECAM L/L', B/G, D/K DVB-T: QPSK/16QAM/64QAM
Unpacking Dimension(L×H×W)	568×418×36 mm
Packing Dimension(L×H×W)	630×465×100 mm
Net weight	4Kg
Gross weight	5Kg
Color	16.7M
Remote control range	≥8m ± 30°
Storage channels	ATV: 100 DTV: 400

● VGA input mode

18.5"

S/N	Mode	Resolution	Refresh(Hz)
1	VGA	720×400	70
2		640×480	60
3	SVGA	800×600	60
4	XGA	1024×768	60
5	WXGA	1360×768	60

Note: Recommended mode: 1360×768@60Hz

21.5" / 23"

S/N	Mode	Resolution	Refresh(Hz)
1	VGA	720×400	70
2		640×480	60
3	SVGA	800×600	60
4	XGA	1024×768	60
5		1280×720	60
6		1280×960	60
7	SXGA	1280×1024	60
8	WXGA	1360×768	60
9		1600×900	60
10	WUXGA	1920×1080	60

Note: Recommended mode: 1920×1080@60Hz

- Power supply: Comply with EPA standard, compatible with VESA DPMS standard.

Mode	Power LED indicator	Power consumption	
		18.5" / 21.5"	23"
On	Off	≤35W	≤40W
Standby	On	≤1W	≤1W

Note: This specification is subject to change without notices. If there are differences between manual and real operation, please do according to real operation.

Listing

Please make sure that all of the following items are complete:

- LCD TV (Include base);
- User manual;
- Remote control ;

If any of above listed items is missing, please contact your dealer or our service department.

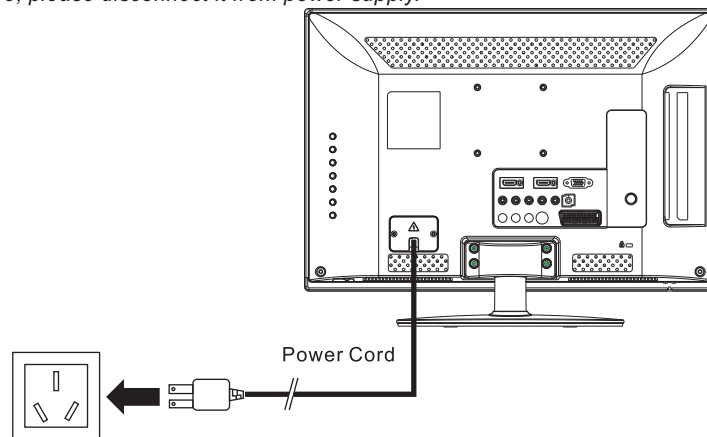
Installation & Connection

Power Connection

Insert the power plug into the socket of the electrical source (AC 100V-240V, 60/50Hz).

Notes:

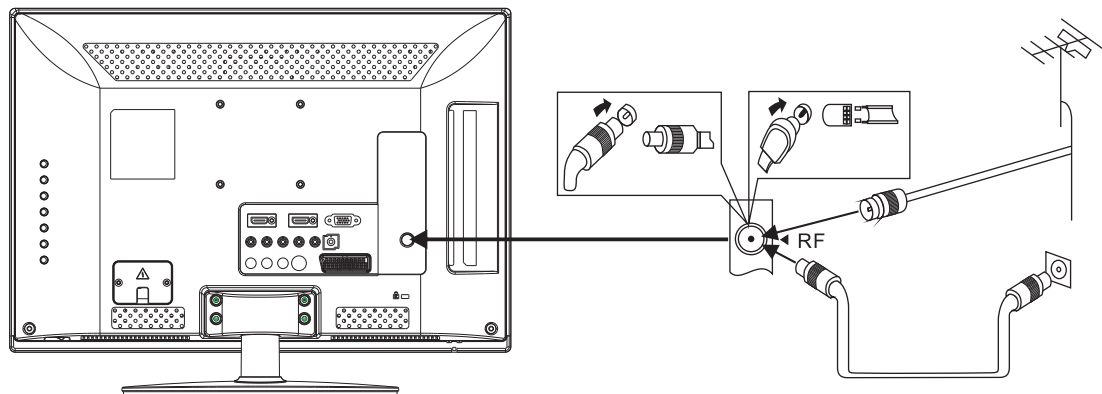
1. *When connecting the power cord, be sure to turn off the machine and other equipment's power.*
2. *If a long time at leisure, please disconnect it from power supply.*



To power socket AC 100V-240V, 60/50Hz

Antenna Connection

It is better to use outdoor antenna or CATV cable if you want to watch the colorful and hi-definition pictures.



Attention:

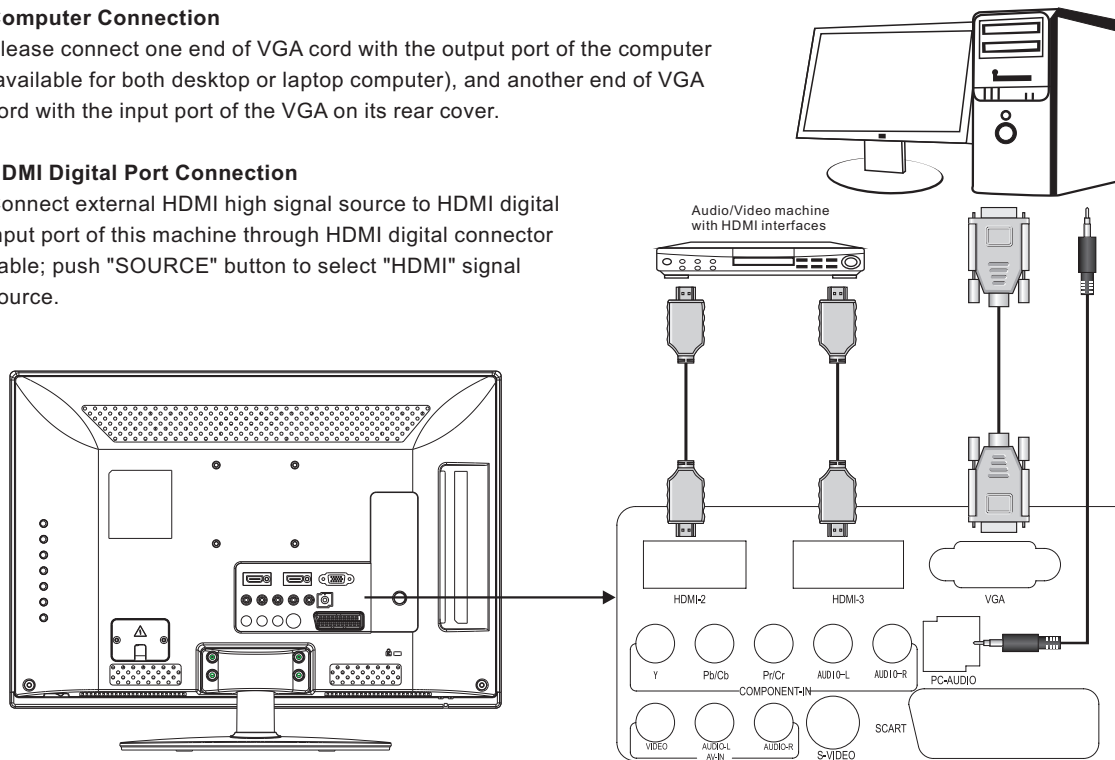
Please turn off TV power before the outdoor antenna is connected to the TV signal input port. Outdoor antenna can't be located near the high-voltage wires. Please pull out the plug of outdoor antenna to avoid thunder shock in thunder weather.

Computer Connection

Please connect one end of VGA cord with the output port of the computer (available for both desktop or laptop computer), and another end of VGA cord with the input port of the VGA on its rear cover.

HDMI Digital Port Connection

Connect external HDMI high signal source to HDMI digital input port of this machine through HDMI digital connector cable; push "SOURCE" button to select "HDMI" signal source.



AV Video Signal Connection

Through composite cable, connect AV equipment VIDEO output termination to this machine VIDEO input, and AV equipment AUDIO output termination to this machine AUDIO input, respectively; Press "SOURCE" key to select "AV" signal source.

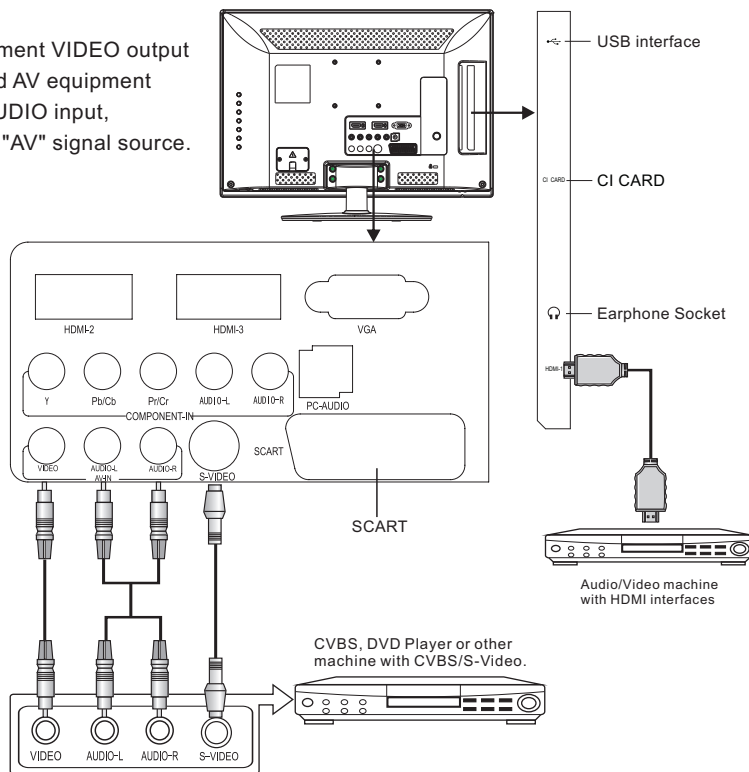
S-VIDEO Input Connection

Through S-VIDEO/AUDIO cables to connect external AUDIO/VIDEO equipment to the machine's AUDIO/VIDEO input port, and press "SOURCE" key to select "SVIDEO" signal source

SCART Connection

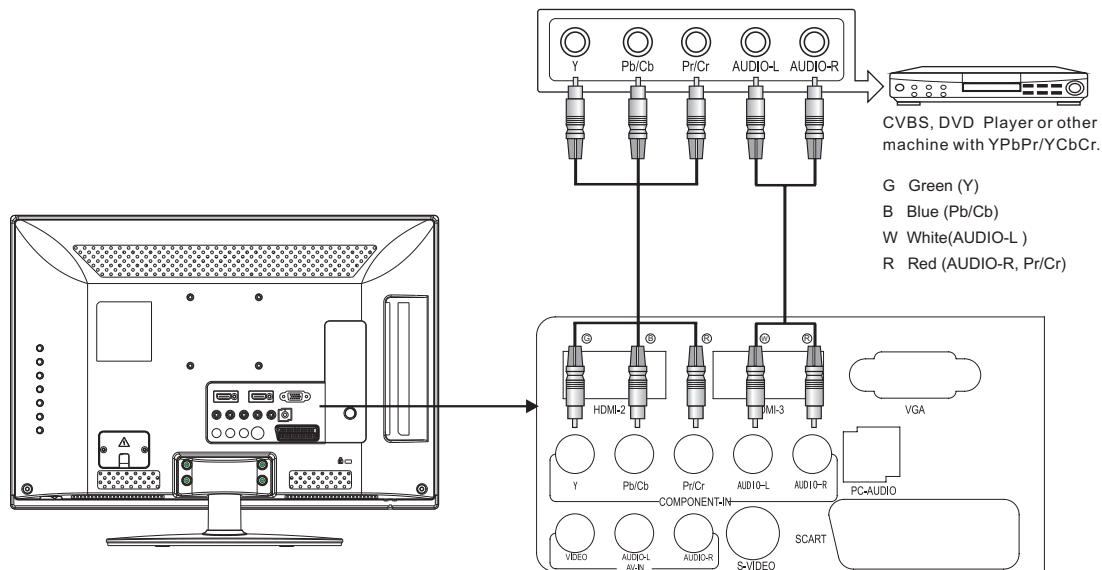
Connect your equipment with SCART interface to the SCART interface of the machine.

Earphone Socket: The TV speakers will be shut off when earphone is inserted into this socket.



YPbPr/YCbCr Input Connection

If the signal source is DVD, Digital wired receiver or equipments with the YPbPr/YCbCr output, recommends you to connect YPbPr or YCbCr output with the TV YPbPr/YCbCr input. In order to obtains the better picture quality, at the same time, please connect its audio output with TV audio input as shown in the following chart. If you choose the YPbPr/YCbCr signal, please set signal source selection under YPbPr pattern.



Base installation

Base equipment act as the picture. Equip the base with the machine according to arrow point, and lock the bolts tightly.



Wall Mounting subassembly installation

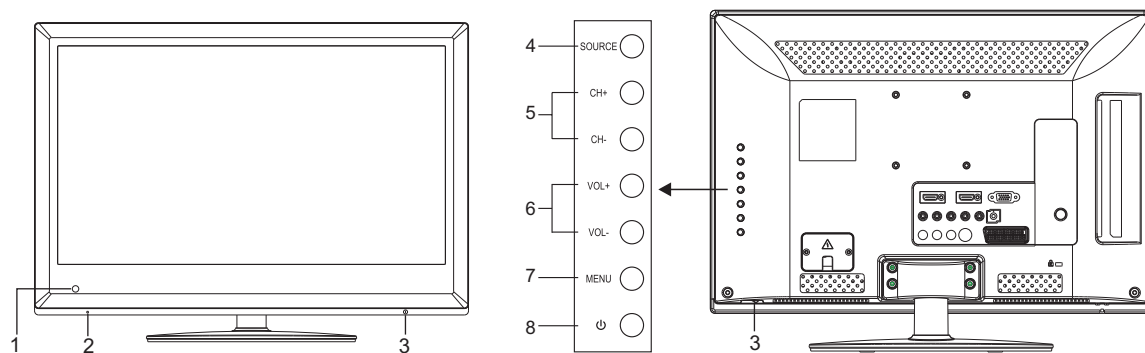
Installation for VESA Wall Mounting

1. Take off the base.
2. Fasten the wall mounting board. (The height can be confirmed by the user).
3. Fasten the wall mounting stand at the position of VESA on the rear cover with bolts.
4. Spin M4 bolts into the left-right nuts on the wall mounting stand. 3-4 mm of depth from bolts washer to stand is recommended.
5. Hang the machine onto the slot of the wall mounting board. Then lock the two bolts on the sides.

Note: ● Installation method is different because of Hanging arm hardware's structure.

- Must install the wall pendant on firm wall surface, please do not install this machine on ceiling or vehicles.

Panel Control Keys

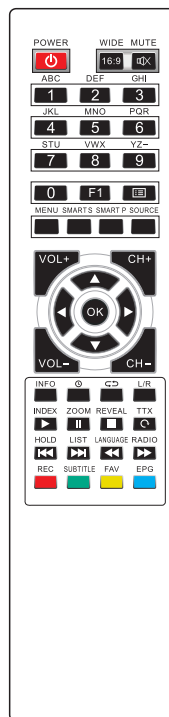


1. Remote Receiving Sensor.
2. Power Indicator.
3. ① Power switch.
4. SOURCE: Press this key to enter the menu of signal source and choose signal source.
5. CH+/CH-: Press these two keys to choose channel, and adjust the options you need under OSD operation.
6. VOL+/VOL-: Press these two keys to add or reduce volume, and adjust the analog value under OSD operation.
7. MENU: Press this key to enter main menu.
8. ② Power on/Standby .

Note: There are some apparent differences between modes, please according to practicality.

Remote Control

POWER	Switch the receiver in and out of standby mode.
16:9	Switch picture ratio: 16: 9, 4:3, Auto, Panorama, Zoom1, Zoom2.
MUTE	Switch off sound when viewing a program.
Numerical	Input number
CURSOR KEY	Move cursor up / down/left / right in menu item or change date of EPG.
F1	Picture freeze on or off
MENU	Press this button to display menu
SMART S	Smart sound mode selection:Standard, Music, News, Sports, User.
SMART P	Smart image mode selection: Standard, Soft, User, Dynamic.
SOURCE	Press this key to display signal source selection menu
CH+/CH-	Channel changing keys. To change different pages of current channel EPG.
VOL+/VOL-	Press to adjust the volume.
OK	To confirm current setting.
INFO	Display the information of current program.
Time	Press this key to set time of sleeping automatically: Off, 10, 20, 30, 60, 90, 120, 180, 240 min.
Return	Press this button to return to last watching channel.
L/R	Select NICAM mode(under ATV signal source)
INDEX (►)	For teletext operation or USB operation
ZOOM (II)	
REVAL (■)	
TTX (C)	
HOLD (◀◀)	
LIST (▶▶)	
LANGUAGE (◀◀)	
RADIO (▶▶)	



● REC	Teletext red key or record.
● SUB	Teletext green key or display subtitle message, when current channel has subtitle option.
● FAV	Teletext yellow key or Favourite key, to set or display your favorite programs.
● EPG	Teletext blue key, or switch on Teletext, if current channel have this option, and use EXIT key to switch off Teletext or to show the Electronic Program Guide of current channel during no-menu state.

remote control user manual about teletext

TeleText: Press 'Teletext' key, It loops in 3 modes: Mix Display → Text Mode → TeleText

Off Thereinto: Text Mode is Automatic Mode. In Automatic mode, the system automatically selects TOP, Fastext, or Default mode as appropriate, depending on the data being received. In Text Mode or Mix Display, press number 0~9, 'CH+' or 'CH-' key to select text page

Reveal: Display any hidden characters for 6 seconds.

Hold: Toggle hold on or off for current display pages. If the page is not held, it will become held, thus preventing it from being updated. If the page is currently held, the hold will be removed thus allowing the page to update. When the page is held, this is indicated by a Hold prompt.

Index: In Fastext mode, request the index page if the index link is valid, or the Packet 8/30 initial page if valid, or page 100. In TOP mode, if the Hitlist option is enabled, toggle the system between the current text page and the Hitlist menu; otherwise request page 100. In List mode, reset the list of preferred pages either to that of the current channel as read from the EEPROM if fitted, or to the default list (pages 100, 101, 102, 899), and request the first page in the list. In Default mode, request the Packet 8/30 initial page if valid, or page 100.

List: Toggle between List mode and the current acquisition mode (Fastext, TOP, or Default).

Red, Green, Yellow, Cyan: Request the associated page in the display block according to the acquisition mode. In TOP Hitlist mode, the Red, Green, and Cyan commands control selections from the Hitlist menu, while the Yellow command is ignored.

Remote control battery installation method:

Take off the cover of battery box, fix two AAA batteries with 1.5 volt, and conform with the polarity of remote control battery box.

Note: *Appearance of the remote control may be different from this picture, please according to practicality.*

Precautions for use of remote control:

1. When using remote control you should point it to the remote-control inductive window. The goods between remote control and inductive window may hinder normal operation.
2. Do not cause the remote control to receive fierce vibration. In addition, do not set or place the remote control under direct sunlight, for the thermal energy will cause the distortion of remote control.
3. When remote-control inductive window of main machine is under direct sunlight or intense illumination, the remote control may malfunction, by now, please change the angle of illumination or this machine, or approach the inductive window to operate the remote control.
4. When the battery voltage is insufficiency it influences the remote control distance, you should replace with new battery; when not to use the remote control for long or the battery is exhausted, please take out the battery, in order to avoid bringing the battery leakage to corrode the remote control and thus cause it out of commission.
5. Do not use different batteries. The mix use of new and old batteries is not allowed, you should use battery pair.
6. Do not throw battery into fire, charge or disassembly, especially do not charge, assemble and disassemble, heat or burn to the used battery. Please observe the related environmental protection stipulation on wasted battery.

★ Special Attention:

1. TV set will automatically turn to standby if there is no signal input for 5 minutes when the TV turns on.
2. TV set will automatically turn to standby when the preset time for turning off is reached.
3. If you do not use it for a long time, please turn off the power supply for the machine. Do not let the machine work in standby state for a long time.

Signal Source Selection

Press "SOURCE" key either on the remote control or on the panel. "INPUT SOURCE" will be displayed on the screen (Fig.4). Then press "Up/Down" key on remote control or "CH+/CH-" key on the panel to select the signal source such as DTV, ATV, AV, S-Video, SCART, YPBPR, HDMI1, HDMI2, HDMI3, VGA, USB. Press "OK" key on the remote control and the TV will switch the current signal source to the source which you select.

Input Source
DTV
ATV
AV
S-Video
SCART
YPBPR
HDMI1
HDMI2
HDMI3
VGA
USB
OK:ENTER

Fig.4

Menu Operation Instruction

Press "MENU" key on the remote control or on the panel. The screen will display the main menu (Fig.5).

1. Press "Left/Right" key on the remote control or "VOL+/VOL-" key on the panel to select the adjustment sort menu, which includes 6 sorts, CHANNEL, PICTURE, SOUND, OPTION, TIME, LOCK.
2. Press "Up/Down" key on the remote control or "CH+/CH-" on the panel to select what is needed to adjust in sort menu.
3. Press "OK" key on the remote control to set or enter

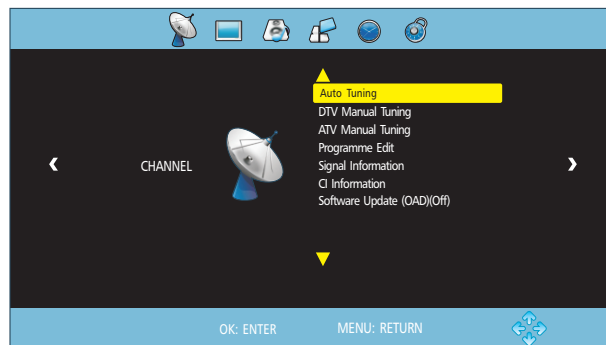


Fig.5

into next menu.

4. Press "Menu" key to exit the main menu when the TV displays the Main Menu; Press "Menu" key to return to previous menu when the TV displays the sub-menu; Press "Source" key to display the signal source menu.
5. During the operation, the selections which can not be adjusted at current mode will be hidden automatically and the color of the selections will be changed into gray.
6. Menu Operation Instruction in this manual is explained according to TV mode. The operations in other modes are similar to the one in TV mode. Users can take it as reference.

Note: "UP, Down, Left, Right" in this Manual stand for the direction cursor keys on the remote control unless specifically defined. The operating instructions in the text below are all based on keys on the remote control. Please understand the keys on the panel by yourself.

CHANNEL

Press "MENU" key, CHANNEL menu shows on the screen. Press "Up/Down" key to select the item you'd like to adjust or set.

Auto Tuning

Press the "MENU" key, CHANNEL menu shows on the screen. Press "Up/Down" key to select Auto Tuning. Press "OK" key, then press "Left/Right" key to select Tune Type: DTV+ATV, DTV,ATV.(Fig.6). Press "Down" key to enter into "Country" menu, you can select country where are you by pressing "Up/Down/Left/Right", Press "OK" key to confirm, the machine start auto Tuning. During auto tuning, the screen display "Do you want to skip ATV Tuning" by pressing "MENU" Key. Press "Left" key to confirm, or press "Right" key to cancel. When you press "Left" key to confirm, the machine start auto tuning DTV channel, During auto tuning DTV channel, the screen display "Do you want to skip DTV Tuning" by pressing "MENU" key. Press "Left" key to confirm, or press "Right" key to cancel.

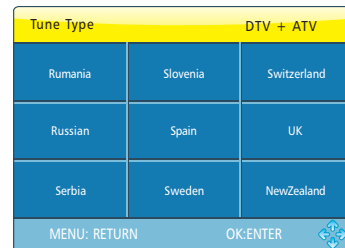


Fig.6

DTV Manual Tuning

Press the "MENU" key, CHANNEL menu shows on the screen. Press "Up/Down" key to select DTV Manual Tuning. Press "OK" key to enter into DTV Manual Tuning menu.(Fig.7). Press "Left/Right" key to select channel, then press "OK" key to conduct search. After searching, the DTV Manual Tuning menu automatically exits. During the search you may press "MENU" key to interrupt the search and return to the last menu.

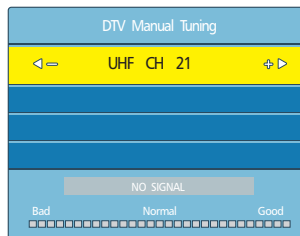


Fig.7

ATV Manual Tuning

Press the "MENU" key, CHANNEL menu shows on the screen. Press "Up/Down" key to select ATV Manual Tuning. Press "OK" key to enter into ATV Manual Tuning menu.(Fig.8). Press "Up/Down" key to select Search, and then press "Left/Right" key to conduct manual search, after searching you may save the channel searched to other positions, at this time press "Up/Down" key to select Storage To, and then press the "Left/Right" key to choose channel Number. After selecting Fine-Tune press "Left/Right" key to tune from low frequency or high frequency. During manual search you also may press "MENU" key to interrupt the search and return to the last menu.

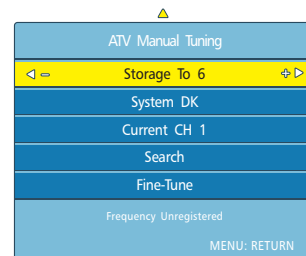


Fig.8

Programme Edit

Press the "MENU" key, CHANNEL menu shows on the screen. Press "Up/Down" key to select Programme Edit . Press "OK" key to enter into Programme Edit menu.(Fig.9), then press "Up/Down" key to select the channel you'd like to edit.

DELETE: When you select a channel, a dialog box of "Are you sure?" will appear on the screen after pressing the "red" key, then press the "Left" key to delete the channel,

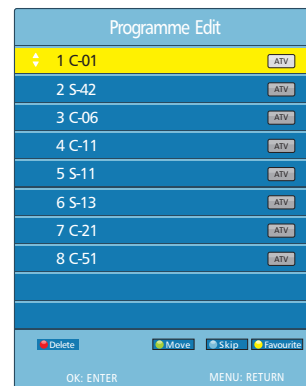


Fig.9

press "Right" key to cancel operation.

MOVE: After selecting channel press "Green" key, MOVE icon appears behind the channel which you select, and press "Green" key again to cancel it. Press "Up/Down" key to select the channel position that you'd like to move, then press "OK" key to confirm. You also can press "Menu" key to return main menu.

SKIP: After selecting channel press "Blue" key, SKIP icon appears behind the channel which you select, press "Blue" key again to cancel it. Press "MENU" key to return main menu.

Favourite: After choosing channel press "Yellow" key, Favourite icon appears behind the channel which you select, press "Yellow" key again to cancel it. Press "MENU" key to return main menu

Signal Information

Press the "MENU" key, CHANNEL menu shows on the screen. Press "Up/Down" key to select Signal Information. Press "OK" key to enter into Signal Information menu. You can look through signal information.

CI Information

Press the "MENU" key, CHANNEL menu shows on the screen. Press "Up/Down" key to select CI Information. When you insert the CI card, press "OK" key to enter into CI Information menu. You can look through CI information.

Note: Before you press the MENU button, please select the input source first. Only in DTV and ATV mode you can change it.

Software Update(OAD)Off

Open or close software update function by pressing "Ok"key on the remote control.

Select Channels with "CH+/CH-" Key

Press Program key on the remote control or "CH+/ CH-" key on the panel to select the channels.

Select channels with the Return key : you can go to the last channel when pressing the Return key. For example, if the last channel is 10 and the current channel is 20, you will go to channel 10 when pressing the Return key. You can switch the two favourite channels as you like.

Select Channels with Numeric Keys

1. Operations to select channels with 1 digit (0-9):

Press the number keys (0-9) on the remote control to select TV channel directly.

2. Operations to select channels with 2 digits (10-99):

Press the number keys with 2 digits (10-99) on the remote control to select TV channels.

3. Operations to select channels with 3 digits (100-399):

Press the number keys with 3 digits (100-399) on the remote control to select TV channels.

PICTURE

Press the "MENU" key, CHANNEL menu shows on the screen, press "Left/Right" key to select PICTURE (Fig.10). Then press "Up/Down" key to choose the item you'd like to adjust or set.

After selecting Picture Mode, press "OK" key to enter into Picture Mode submenu. Press "Up/Down" key to select item you'd like to adjust or set.

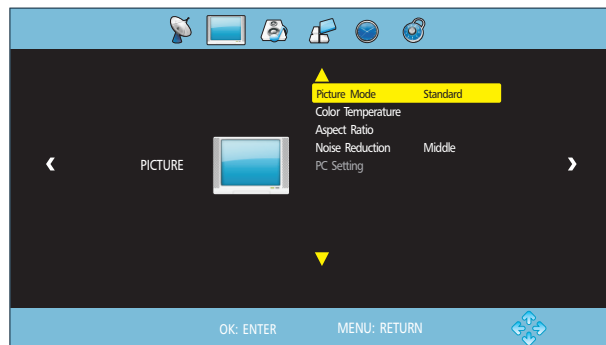


Fig.10

Item	Function	Description
Picture Mode	Select picture mode	"Standard", "Soft", "User" "Dynamic" four modes.
Contrast	Adjust the contrast of whole picture	Increasing analog value increases Contrast; Decreasing analog value decreases Contrast (0-100).
Brightness	Adjust brightness and blackness of whole picture	Increasing analog value increases brightness; Decreasing analog value decreases brightness(0-100).

Item	Function	Description
Color	Adjust the color of whole picture	Increasing analog value increases color temperature; Decreasing analog value decreases color temperature (0-100).
Sharpness	Adjust the sharpness of whole picture	Increasing analog value increases definition; Decreasing analog value decreases definition (0-100).
Tint	Adjust the tint of whole picture	Increasing analog value increases green; Decreasing analog value increases purple (0-100).

Note: *Tint can be adjusted only in NTSC system.*

After selecting Color Temperature, press "OK" key to enter into Color Temperature submenu. Press "Up/Down" key to select item you'd like to adjust or set.

Item	Function	Description
Color Temperature	Select Color Temperature	"Standard", "Warm", "User" "Cool" four modes.
Red	Adjust red	Increasing analog value increases red; Decreasing analog value decreases red (0-100).
Green	Adjust green	Increasing analog value increases green Decreasing analog value decreases green (0-100).
Blue	Adjust blue	Increasing analog value increases blue; Decreasing analog value decreases blue (0-100).

Note: *The adjustment on Red, Green and Blue is only available under User states.*

After selecting Aspect Ratio, press "OK" key to enter into Aspect Ratio submenu. Press "Up/Down" key to select aspect ratio mode: Auto, 4:3, 16:9, Zoom1, Zoom2 and Panorama

After selecting Noise Reduction, press "OK" key to enter into Noise Reduction submenu. Press "Up/Down" key to

select Noise Reduction mode: Off, Low, Middle, High and Default.

SOUND

Press the "MENU" key, CHANNEL menu shows on the screen, press "Left/Right" key to select SOUND (Fig.11). Then press "Up/Down" key to select the item you'd like to adjust or set.

After selecting Sound Mode, press "OK" key to enter into Sound Mode submenu. Press "Up/Down" key to select item you'd like to adjust or set.

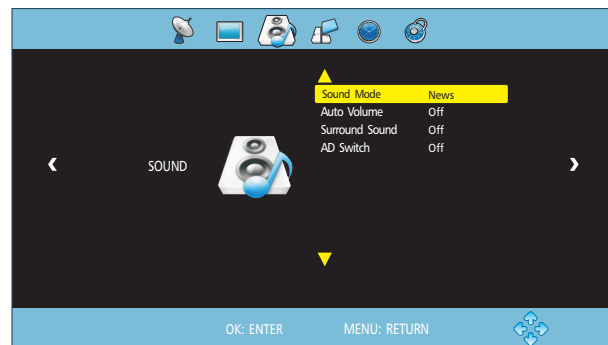


Fig.11

Item	Function	Description
Sound Mode	Select Sound Temperature	"Standard", "Music", "News" "Sports" "User" five modes.
Treble	Adjust treble value	Increasing analog value increases treble; Decreasing analog value decreases treble (0-100).
Bass	Adjust bass value	Increasing analog value increases bass; Decreasing analog value decreases bass (0-100).
Balance	Adjust balance of left or right sound	Increasing analog value decreasing left volume; Decreasing analog value decreases right volume(0-100).

After selecting Auto Volume, press "OK" key to select "On" or "Off", open or close Auto Volume function.

After selecting Surround Sound, press "OK" key to enter into Surround Sound submenu. Press "Up/Down" key to select surround sound mode: Off, Surround, SRS TruSurround XT.

After selecting AD Switch, press "OK" key to enter into AD Switch submenu. Press "Left/Right" key to select "On" or "Off", when you select "On", you can adjust AD Switch by pressing "Left/Right" key.

OPTION

Press the "MENU" key, CHANNEL menu shows on the screen, press "Left/Right" key to select OPTION (Fig.12). Then press "Up/Down" key to select the item you'd like to adjust or set.

After selecting OSD Languages press "OK" key to enter into OSD Languages submenu. Press "Up/Down/Left/Right" key to select language which you wish. Press "MENU" key to return previous menu.

Note: The operation method of the Audio Languages, Country and Subtitle Language are the same as OSD Languages.

After selecting Hearing Impaired press "OK" key to select "On" or "Off".

After selecting PVR File System press "OK" key to enter into PVR File System submenu (Fig.13). Press "Up/Down" key to select "Check PVR File System", The machine start check by pressing "OK" key, after checking successful, press "MENU" key to exit menu operation. Press "Red" key to record.

Note: Insert U disk into the interface of the machine before operating the PVR File System function.

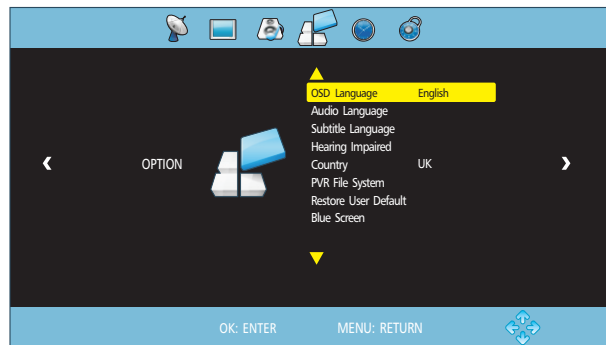


Fig.12

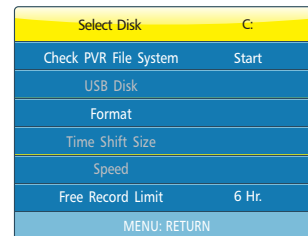


Fig.13

After selecting Restore User Default, The screen display "Are you sure?" by pressing "OK" key .You can press "Left" key to resume the factory setting or press "Right" key to cancel current operation.

After selecting Blue Screen, press "OK" key to select "On" or "Off". Open or close Blue Screen function.

TIME

Press the "MENU" key, CHANNEL menu shows on the screen, press "Left/Right" key to select TIME (Fig.14) .Then press "Up/Down" key to select the item you'd like to adjust or set.

After selecting Clock press "OK" key to enter into Clock submenu (Fig.15). Press "Up/Down" key to select Date, Mouth, Year, Hour and Minute, then press "Left/Right" key to adjust value.

After selecting Off Time press "OK" key to enter into Off Time submenu. Press "Up/Down" key to select Off Time, Hour and Minute, then press "Left/Right" key to adjust value.

Note: You can set Hour and Minute only the Off Time is not under "Off" Mode.

After selecting Sleep Time press "OK" key to enter into Sleep Time submenu. Press "Up/Down" key to select sleep time: Off, 10Min, 20Min, 30Min, 60Min, 90Min, 120Min, 180Min, 240Min.

After selecting Auto Sleep press "OK" key to select "On" or "Off".

After selecting Time Zone press "OK" key to enter into Time Zone submenu. Press "Up/Down/Left/Right" key to select country where you are.

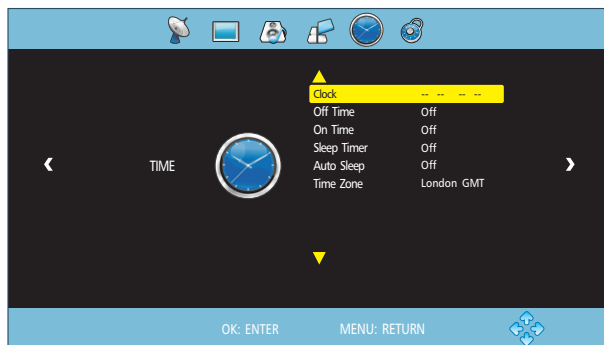


Fig.14

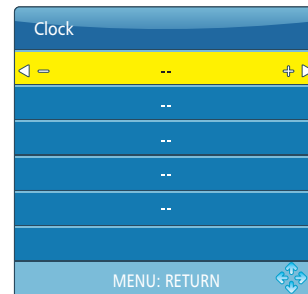


Fig.15

LOCK

Press the "MENU" key, CHANNEL menu shows on the screen, press "Left/Right" key to select LOCK .After pressing "OK" key, press the Numerical key to input default password 0000 for entering LOCK menu (Fig.16), and then press "Up/Down" key to select the item you'd like to adjust or set.

After selecting Lock System press "OK" key to select "On" or "Off".

After selecting Set Password, press "OK" key , a dialog box of "Set password" appears on the screen. Press the numerical key to input old password , and input new password twice to complete the password change and return to last menu.

After selecting Block Program press "OK" key, a "Block Program" menu shows on the screen. Press "Up/Down" key to select the channel that you'd like to lock, and then press "LOCK" key to lock or unlock, finally press "MENU" key to exit menu operation.

After selecting Parental Guidance press 'OK" key to enter into Parental Guidance menu, press "Up/Down" key to select :Off, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,18.

Hotel Function

Press "MENU" key on the remote control to display the main TV menu, and then press "4578" on the remote control to display the hotel function menu(Fig17). Press" up/down" key to enter into the menu and select the item which you need to adjust, and then press "left/right" key to adjust the value or state.



Fig.16

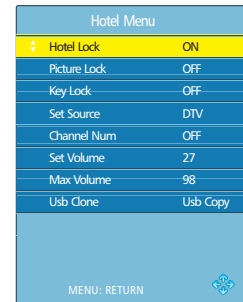


Fig.17

Items	Function	Description
Hotel Lock	Open or close hotel function	“ON” “OFF” two states
Picture Lock	Set whether starting up screen is locked	“ON” “OFF” two states
Key Lock	Set whether the machine control panel key is locked	“ON” “OFF” two states
Set Source	Set starting up type of the signal source	OFF, DTV, ATV, AV, S-Video, SCART, YPBPR, HDMI1, HDMI2, HDMI3, VGA, USB.
Channel Num	Set starting up channel number	
Set Volume	Set starting up volume	(0-100)
Max Volume	Set starting up maximum volume	(0-100)
USB Clone	Set USB copy function or USB clone function	“USB Copy”, “USB Clone” two states

Note: You can set hotel function only the Hotel Function is “ON”

USB signal source operation

Please insert USB memory card into USB interface of TV, press "source" key on the remote control or control panel to select USB signal source, press "OK" key to enter.

★ Note:

- ① USB function support file format with video file/sound file/graphic file. For some nonstandard USB storage devices, may appear condition of unable recognize, please replace the standard USB storage device.
- ② Streaming media system to play a file for each format has certain limitations, if more than the system limit, then play will be wrong.
- ③ Do not pull up USB storage devices when system playing, this may result in system or equipment problems
- ④ The system supports USB1.1 and USB2.0 connector, the standard transport protocol such as U disk and removable hard disk storage devices, USB devices file format must be FAT or FAT32, does not support NTFS.

1. CHANNEL, PICTURE, SOUND, OPTION, TIME, LOCK.
Press "SOURCE" key either on the remote control or on the panel. "INPUT SOURCE" will be displayed on the screen (Fig.4). Then press "Up/Down" key on remote control or "CH+/CH-" key on the panel to select USB. Press "OK" key to enter into USB (Fig. 18).

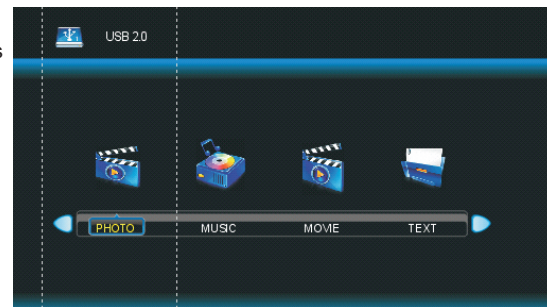


Fig.18

Remote Control Shortcut Keys

The last two row keys on the remote control are used for USB operation.

Press "Left/Right" key on the remote control or "VOL+/VOL-" key on the panel to select the adjustment sort menu, which includes 4 sorts PHOTO, MUSIC, MOVIE, TEXT.









Press "Left/Right" key to select PHOTO. Then press "OK" key to read your photo documents. Press cursor key on the remote control to select photo and press "OK" key (Selected, and the file lower right corner shows a red hook. you can choose photos to join playlist.).














Press "INDEX" key on the remote control to play. When you choose nothing, the machine will join all the photos in the file in playlist automatically.

★Note: The operation method of the MUSIC, MOVIE and TEXT are the same as PHOTO Languages. Please refer to PHOTO options.

Basic Function

When photos are playing, press "INFO" key on the remote control, a toolbar will display under the screen (press "Down" key on the remote control to hide toolbar).

	Play/Pause: Press "Left/Right" key on the remote control to select this function, press "OK" key to play or pause.
	Prev.: Press "Left/Right" key on the remote control to select this function, press "OK" key to read previous photo.
	Next: Press "Left/Right" key on the remote control to select this function, press "OK" key to read next photo.
	Stop: Press "Left/Right" key on the remote control to select this function, press "OK" key to stop playing and return to previous menu.
	Repeat: Press "Left/Right" key on the remote control to select this function, press "OK" key to select repeat One or repeat all or not repeat.
	Music: Press "Left/Right" key on the remote control to select this function, press "OK" key to play background music. (Music and photos need to place in the identical folder, or you may select some music in music file first.)
	Playlist: Press "Left/Right" key on the remote control to select this function, press "OK" key to show playlist.
	Info.: Press "Left/Right" key on the remote control to select this function, press "OK" key to show the information of photo. Including resolution, size and so on.

	Clockwise: Press "Left/Right" key on the remote control to select this function , press "OK" key to clockwise rotation photo.
	Counter-clockwise: Press "Left/Right" key on the remote control to select this function, press "OK" key to counter-clockwise rotation photo.
	Zoom in: Press "Left/Right" key on the remote control to select this function, press "OK" key to enlarge picture.
	Zoom out: Press "Left/Right" key on the remote control to select this function, press "OK" key to reduce picture.
	Movie View: If the picture big enough to surpasses the screen, you may use this function to move the picture.
	FB: Press "Left/Right" key on the remote control to select this function, press "OK" key to fast back. Press "PLAY" key to play normally.
	FF: Press "Left/Right" key on the remote control to select this function, press "OK" key to fast forward. Press "PLAY" key to play normally.
	MUTE: Press "Left/Right" key on the remote control to select this function, press "OK" key to fast back. Press "MUTE" key to Switch off sound.
	GO TO Time: Press "Left/Right" key on the remote control to select this function, press "OK" key to select the time to play.
	Set A: Press "Left/Right" key on the remote control to select this function, press "OK" key to set A and B, the film will circulating play in the time of A to B.
	SF: Press "Left/Right" key on the remote control to select this function, press "OK" key to slow down play speed. Press "PLAY" key to play normally.
	Step: Press "Left/Right" key on the remote control to select this function, press "OK" key to play one step by step. Press "PLAY" key to play normally.
	Aspect Ratio: Press "Left/Right" key on the remote control to select this function, press "OK" key to select Auto, 4:3, 16:9 or PC Mode.

Simple Troubleshooting

Symptom	Factor	Solution
Snowflake speckle and sound noise.	1. Antenna cable connector is loose, cable is damaged. 2. Antenna cable type is not matching. 3. Direction or position of antenna is incorrect. 4. Signal is weak.	1. Check the antenna cable connector plug whether or not loose, cable whether or not perfect. 2. Check antenna cable type(VHF/UHF) 3. Adjust direction or position of antenna . 4. Attempt to use signal amplifier.
TV image is better, but has noise.	Antenna cable connector is loose, cable is damaged.	Check the antenna cable connector plug whether or not loose, check cable condition.
No image. No sound.	Power plug is loose, power cord don't connect well.	1. Check power cord whether or not connect well. 2. Press "power" on panel or remote control. 3. Check if the "⏻" button is on
TV image has stripes.	Signal is exposed to interference, such as car, neon light, electric blower etc.	Don't use electric blower around machine, adjust antenna cable direction to reduce interference.
TV image has shadows.	1. TV signal is reflected by valley or building. 2. Direction of antenna is incorrect.	1. Use high directional antenna. 2. Adjust direction of antenna.
TV no sound.	1. Volume setting is too low. 2. Sound is muted.	1. Adjust volume to proper value. 2. Press "mute" button on remote control to eliminate mute.
Computer no display, and prompt no signal input, red indicator LED twinkling.	Signal cable is loose or fallen off.	Check signal cable whether or not loose, fall off, reconnect again.

Symptom	Factor	Solution
Remote control distance is short, lose control.	1. Receive window of remote control was covered by objects. 2. The battery energy of remote control is to low.	1. Remove objects, obstructing the receiver window of remote control. 2. Change battery.
Computer display is faint.	1. Adjustment is incorrect. 2. Display mode is incorrect.	1. Use auto-adjustment function. 2. Use recommended mode.
Computer display image does not fill the screen.	1. Adjustment is incorrect. 2. Display mode is incorrect.	1. Use Auto-adjustment function. 2. Enter "PICTURE" to adjust horizontal or vertical position. 3. Use recommended mode.
Noise Signals at turning off.	Electrical release at turning off.	It is normal.
Can not operate this machine.	Exterior influence, for example lightning, static electricity and so on, which are possibly to disturb the normal operation of this machine.	Press "⏻" button to turn off electrical source, then press "⏻" button to turn on the TV again after 1-2 minutes.

CAUTION: Don't let your machine display the same picture for a long time, please set up a screen protection procedure. If a high contrast picture remains for along time, this picture will bring a 'leave shadow' in screen. Usually the 'leave shadow' will disappear gradually when you turn off the machine power. However, this trouble can't be repaired , Which isn't in range of warranty.